

## Learning Set 2: The Sandwich-Cookie Challenge



### 2.3 Redesign Your Investigation:



Read the first two paragraphs on p. 29 with your partner.

*Why do you think the results of the investigation were so varied?*

*What does it mean for an experiment to be repeatable?*

*Read through your procedure on your sheet from 2.2. Would another group be able to replicate your results? Why or why not?*

**Read the rest of p. 29 and the first paragraph on p. 30.**

*What factors should we control in our penny investigation?*

**Read the next two paragraphs and the checklist on p. 30**

*How can you make sure your measurements are consistent in this investigation?*



**Revise Your Procedure (Stop for class discussion!)**

*Record your class procedure here:*

1.

2.

3.

4.

Name\_\_\_\_\_ Date\_\_\_\_\_ Hour\_\_\_\_\_

5.

6.

7.

8.

**Reflect** *Answer the following questions with your partner.*

1. *What are three or four key differences between your previous procedure and the new class procedure?*
2. *What are you now controlling better in the new procedure?*
3. *What effect do you think this new procedure will have on the range of results across groups?*

**What's the Point?** *Read p. 31 with your partner.*

*Why is it important to use the same procedure every time you test?*